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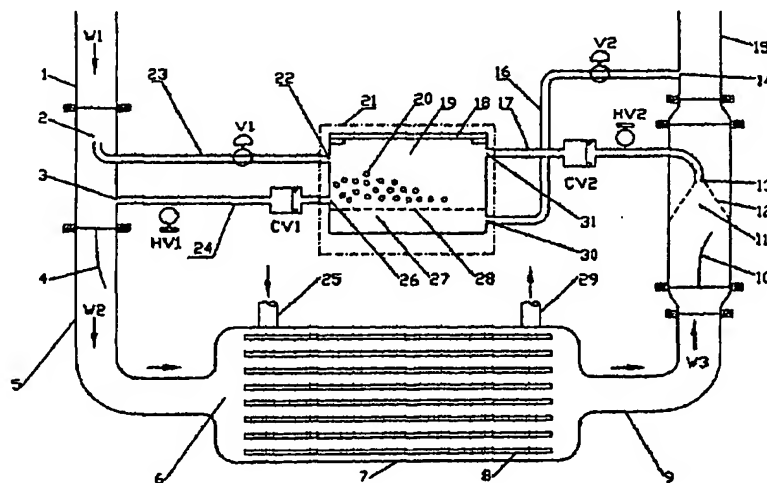
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(54) Title: **AN IMPROVED CLEANING SYSTEM**



(57) Abstract: A cleaning system for cleaning tubing using cleaning balls (20) circulated with the fluid through tubing (8). The system includes a separator (12) having a perforated funnel, which permits the fluid, but not the cleaning balls (20), to pass through. A housing (21) having an apertured partition (28) is used to divide the housing (21) into a first compartment (19) and a second compartment (27). An entrance (2) of a fluid supply pipe (23) and an exit (3) of a ball supply pipe (24) are formed for creating a difference in pressure to create a suction force to recirculate the cleaning balls (20) from the housing (21) via the ball supply pipe (24), back to the tubing (8) for cleaning the walls of the tubing (8). An entrance (13) of a ball return pipe (17) and an exit (14) of a fluid return pipe (16) are formed for creating a difference in pressure to create a suction force to recirculate the cleaning balls (20) from the separator (12) via the ball return pipe (17), into the housing (21).

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